QC ABSTRACT

NAME OF WORK: Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-100 cum	45.38	8	8

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/04/2022

Lab ID	:	CP-2022-06-28-48
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	19/04/2022	26/04/2022	149.37 X 151.80 X 149.83	22675	8.257	429.7	19.0	18.5
2	Drain Side Wall	M20	19/04/2022	26/04/2022	151.32 X 151.33 X 151.06	22900	8.153	412.8	18.0	
3	Drain Side Wall	M20	19/04/2022	26/04/2022	150.24 X 149.62 X 150.41	22480	8.400	416.2	18.5	

* The results obtained are satisfactory as per standard requirements

Note:

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-06-28-48** **Date: 17/05/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	17/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	19/04/2022	17/05/2022	149.72 X 151.74 X 151.07	22719	8.608	531.0	23.4	23.2
2	Drain Side Wall	M20	19/04/2022	17/05/2022	150.73 X 150.13 X 150.05	22629	8.715	500.5	22.1	
3	Drain Side Wall	M20	19/04/2022	17/05/2022	151.43 X 150.18 X 149.25	22742	8.519	545.7	24.0	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-28-48 **Date: 26/04/2022**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.

Agency : Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097

Customer's Reference : BBMP/EE/YNK D/EPMT-15/W.O/138/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-22

Customer ID : Drain Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	19/04/2022	26/04/2022	151.49 X 151.98 X 151.64	23023	8.143	435.1	18.9	18.5
2	Drain Side Wall	M20	19/04/2022	26/04/2022	150.54 X 150.42 X 149.77	22645	8.536	413.6	18.3	
3	Drain Side Wall	M20	19/04/2022	26/04/2022	149.82 X 151.30 X 151.74	22668	8.741	415.0	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-06-28-48 **Date: 25/04/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	18/04/2022	25/04/2022	149.59 X 149.89 X 151.43	22423	8.622	421.8	18.8	18.8
2	Drain Bottom Raft	M20	18/04/2022	25/04/2022	151.18 X 149.42 X 149.85	22588	8.954	427.9	18.9	
3	Drain Bottom Raft	M20	18/04/2022	25/04/2022	151.77 X 151.05 X 149.96	22925	8.993	427.4	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-06-28-48
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/05/2022

Date: 16/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	18/04/2022	16/05/2022	151.94 X 151.53 X 151.30	23023	8.980	541.1	23.5	23.4
2	Drain Bottom Raft	M20	18/04/2022	16/05/2022	149.99 X 151.22 X 150.46	22681	8.417	518.1	22.8	
3	Drain Bottom Raft	M20	18/04/2022	16/05/2022	151.36 X 151.72 X 149.19	22964	8.596	548.1	23.9	

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-06-28-48** **Date: 30-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	29-03-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-06-28-48** **Date: 08-04-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No.24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-22
Sample Type /Size	:	Precast Cover Slab (250 mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	04/04/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.45	230.56	2.563	17774	320.5	18.0	16.8	21.0
2	Cover Slab-2	150.63	230.74	2.798	17817	360.5	20.2	18.8	23.5
3	Cover Slab-3	150.82	230.96	2.963	17862	380.5	21.3	19.8	24.8

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/04/2022

Lab ID	:	CP-2022-06-28-48
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No.24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	18/04/2022	25/04/2022	151.74 X 149.03 X 149.25	22614	9.030	416.1	18.4	18.5
2	Drain Bottom Raft	M20	18/04/2022	25/04/2022	151.62 X 150.65 X 150.44	22842	8.699	421.4	18.5	
3	Drain Bottom Raft	M20	18/04/2022	25/04/2022	151.67 X 151.49 X 150.11	22977	8.161	430.8	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-06-28-48
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	16/05/2022

Date: 16/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	18/04/2022	16/05/2022	149.12 X 150.38 X 151.71	22425	8.242	517.5	23.1	22.9
2	Drain Bottom Raft	M20	18/04/2022	16/05/2022	149.64 X 151.14 X 150.79	22616	8.718	503.6	22.3	
3	Drain Bottom Raft	M20	18/04/2022	16/05/2022	149.99 X 149.31 X 150.09	22396	9.065	523.7	23.4	

• The results obtained are satisfactory as per standard requirements.

Note:
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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-06-28-48** **Date: 30-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	28-03-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-06-28-48** **Date: 30-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-03-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-06-28-48** **Date: 30-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-06-28-48 **Date: 31-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Constuction of Culverts in Ward No. 03 Attur Yelahanka Satellite Town Sub Division
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Penneability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-03-22
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	-
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	-
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-06-28-48** **Date: 31-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Constuction of Culverts in Ward No 03 Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Ramesh H, No:24, 3rd Main, Vidyaranyapura, Akashvani Layout, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/138/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	28-03-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-03-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-06-28-48** **Date: 31-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

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